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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/827,425	04/20/2004	Jun-ichi Murakami	042331	2551		
38834	7590 01/18/2006		EXAM	EXAMINER		
WESTERMAN, HATTORI, DANIELS & ADRIAN, LLP 1250 CONNECTICUT AVENUE, NW			MASIH, KAREN			
SUITE 700	CICOI AVENUE, IV	Y	ART UNIT PAPER NUMBER			
WASHINGTO	ON, DC 20036		2837			

DATE MAILED: 01/18/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	ao
	10/827,425	MURAKAMI, JUN	-IÇHI
Office Action Summary	Examiner	Art Unit	
	karen masih	2837	
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence ad	dress
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period who is a specified above, the maximum statutory period who is a specified above, the maximum statutory period who is a specified above, the maximum statutory period who is a specified above, the maximum statutory period who is a specified above, the maximum statutory period who is a specified above. The specified above is a specified above, the maximum statutory period who is a specified above. The specified above is a specified above is a specified above. The specified above is a specified above is a specified above in the specified above. The specified above is a specified above is a specified above in the specified above. The specified above is a specified above is a specified above in the specified above. The specified above is a specified above is a specified above in the specified above. The specified above is a specified above is a specified above in the specified above is a specified above in the specified above. The specified above is a specified above in the specified above is a specified above in the specified above in the specified above is a specified above in the specified above in the specified above is a specified above in the specified above in the specified above is a specified above in the specified above in the specified above is a specified above in the specified above in the specified above is a specified above in the specified above in t	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this ∝ D (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 2a) This action is FINAL . 2b) ▼ This 3) Since this application is in condition for allowant closed in accordance with the practice under Expression is the practice of the practic	action is non-final. nce except for formal matters, pro		e merits is
Disposition of Claims			
4) ⊠ Claim(s) 1-19 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1-3,6-8,11-13,16 and 17 is/are rejecte 7) ⊠ Claim(s) 4,5,9,10,14,15,18 and 19 is/are object 8) □ Claim(s) are subject to restriction and/or	vn from consideration. d. red to.		
Application Papers			
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the confidence of the	epted or b) objected to by the formula of the formula of the drawing (s) be held in abeyance. See on is required if the drawing (s) is objected to by the formula of the drawing (s) is objected to by the formula of the drawing (s) is objected to by the formula of the formula of the drawing (s) is objected to by the formula of the formu	e 37 CFR 1.85(a). jected to. See 37 CF	
Priority under 35 U.S.C. § 119			
a) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priori application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Applicati ity documents have been receive (PCT Rule 17.2(a)).	on No ed in this National ed. Kai	Stage ren Masih ry Examiner
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 4/20/04.	4) Interview Summary Paper No(s)/Mail Do 5) Notice of Informal P 6) Other:	(PTO-413) ate	en Masih Y Examiner 0-152)

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1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-3,,6-8,11,12,13,16,17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Prior art figs 5-7 in current application in view of Platt.

Prior art figs 5-7 discloses motor controller for simultaneously controlling operation of at least two motors by pwm comprising pair of switches for supplying driving power to a pair of motors among said at least two system motors respectively, pair of pulse signal generators for generating pair of pulse signal respectively having predetermined duty rations at predetermined cycles ad outputting pulse singles to pair of switches to turn on or off pair of switches, see fig 6 #51,#52,#61,#62, fig 7 d1 and d2 and #81,#82. Prior art lacks disclosing inversion means for inverting with respect to a phase of one of two pulse signal that is generated and output by one of two pulse signals generators, a phase of the other of two pulse signal which is generated and output by other of two pulse signal generator or by 180 degrees. Platt discloses inversion means for inverting with respect to phase of one of two pulse singles that is generated and out by one of said two pulse signals generators, a phase of the other of said two pulse signals which is generated and output by the other of said two pulse sing al generators by 180 degrees, see paragraph 0032 lines 1-12 and paragraph 0005 lines 1-5. It would have been obvious to one of ordinary skill in the art to combine the motor controller of Prior art figs 5-7 with inversion means of Platt for improved performance.

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3. Claims 4,5,9,10,14,15,18,19 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Masaki et al discloses pwm with 180-degree shift.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to karen masih whose telephone number is 571-272-2068. The examiner can normally be reached on m-f 8.30-6.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, david martin can be reached on 571-272-2800 ext 41. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

karen masih

Primary Examiner

Art Unit 2837